



Please type a plus sign (+) inside this box → **+**

Modified 9-98

PTO/SB/21 (12-97)  
Approved for use through 9/30/00. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

m o m

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

GAU-2631  
#5

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)  BOX:  Express Mail Receipt No.	Application / Conf. No.	09/665,884 /
	Filing Date	September 20, 2000
	First Named Inventor	Christopher H. Dick
	Examiner Name	Not Yet Known
	Group Art Unit	2631
	Issue Fee Batch No.	
	Attorney Docket Number	X-501-1P US

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (with Recordation Cover Sheet)	<input type="checkbox"/> After Allowance Communication to
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Declaration / Oath	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Preliminary Amendment	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Affidavit(s)/declaration(s)	<input type="checkbox"/> Petition -	<input checked="" type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> To Convert a Provisional Application	<input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below):
<input type="checkbox"/> Change Status to LARGE ENTITY	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	Copies of fourteen (14) references cited.
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input checked="" type="checkbox"/> Substitute PTO-1449(s) IDS by Applicant (PTO/SB/08A)	Remarks	
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

RECEIVED  
MAY 15 2001  
Technology Center 2600

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Customer Number	24309 (Customer Number)	Reg. Number 32,451
Attn:	Edel M. Young	
Signature	Edel M Young	
Date	May 9, 2001	Charge any additional fees required/credit any overpayment to our Deposit Account Number: 24-0040

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D. C. 20231 on this date: May 9, 2001			
Typed or Printed Name	Edel M. Young		
Signature	Edel M Young	Date	May 9, 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT OFFICE

Applicants: Christopher H. Dick and Frederic J. Harris  
Assignee: Xilinx, Inc.  
Title: "Tunable Narrow-Band Filter Including Sigma-Delta Modulator"

Serial No.: 09/665,884

File Date: 09/20/00

Examiner: Unknown

Art Unit: 2631

Docket No.: X-501-1P US

-----  
COMMISSIONER FOR PATENTS  
Washington, D. C. 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. 1.56, Applicants bring to the attention of the Examiner the fourteen (14) references listed in the attached Form PTO-1449. A copy of each is enclosed herein. This Information Disclosure Statement is being submitted prior to receipt of a first office action in the above application.

Citation of the above documents shall not be construed as an admission that the documents are necessarily prior art with respect to the instant invention. Citation of the above documents shall not be construed as a representation that a search has been made other than as described above. Also, the citation of the above documents shall not be construed as an admission that the information cited herein is, or is considered to be, material to patentability as defined in §1.56(b).

Respectfully Submitted,

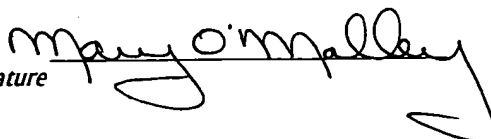


Edel M. Young  
Agent for Applicants  
Reg. No. 32,451

*I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D. C. 20231, on May 9, 2001.*

Mary O'Malley  
Name  
EMY: mom

Signature



RECEIVED  
MAY 15 2001  
Technology Center 2600

Please type a plus sign (+) inside this box



PTO/SB/08A (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

## **Complete if Known**

Application Number 09/665,884 /  
Filing Date September 20, 2000  
First Named Inventor Christopher H. Dick  
Group Art Unit 2631  
Examiner Name Not Yet Known  
Attorney Docket Number X-501-1P US

## **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Hwang, Kai, "Computer Arithmetic Principles, Architecture, and Design"; Copyright 1979 by John Wiley & Sons, Inc.; pages 152-155.	
		Marvin E. Frerking, "Digital Signal Processing in Communication Systems", published by Van Nostrand Reinhold, New York, 1994, pp. 124-128 and 171-174.	
		John R. Deller, Jr. et al., "Discrete Time Processing of Speech Signals", published by Macmillan Publishing Company, Maxwell Macmillan International, New York, 1993, pp. 273-280.	
		"The Programmable Logic Data Book", 1999, available from Xilinx, Inc., 2100 Logic Drive, San Jose, California 95124, pp. 6-5 to 6-41.	
		L. Mintzer, "FIR Filters with Field-Programmable Gate Arrays", Journal of VLSI Signal Processing, No. 6, 1993, pp. 119-127.	
		S. Mohanakrishnan et al., "Automatic Implementation of FIR Filters on Field Programmable Gate Arrays", IEEE Signal Processing Letters, Vol. 2, No. 3, March 1995, pp. 51-53.	
		D. Patterson et al., "Computer Architecture: A Quantitative Approach", Morgan Kaufmann Publishers, Inc., California, 1990, pp. A8-A10.	
*		C.H. Dick and F.J. Harris; "FPGA Signal Processing Using Sigma-Delta Modulation"; IEEE Signal Processing Magazine, January 2000	
		Atmel AT40K/05/10/20/40 Data Sheet, 1999	
*		A. Peled and B. Liu, "A New Hardware Realization of Digital Filters" IEEE Trans. on Acoust., Speech, Signal Processing, Vol. 22, pp. 456-462, December 1974.	
*		S.A. White, "Applications of Distributed Arithmetic to Digital Signal Processing" IEEE ASSP Magazine, Vol. 6(3), pp. 4-19, July 1989	

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Technology Center 2600

MAY 15 2001

RECEIVED

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**